IUID Registry
ITEM UNIQUE IDENTIFICATION

DASN Training #3
IUID Registry Overview

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IUID Registry
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IUID Registry
ITEM UNIQUE IDENTIFICATION

LEARNING OBJECTIVES:

1. Understand the purpose of the IUID Registry.
2. How to get a User ID
3. How to load IUID information
4. Where to get additional training

What is It?

- Item Unique Identification (IUID) is a system of marking items with globally unique, Unique Item Identifiers (UIIs) that distinguish them from all other like and unlike items. The Registry is:
  - **Central Repository for IUID Information**

    https://www.bpn.gov/iuid
  - **The Acquisition Gateway to Identify:**
    - **Description of the Item**
    - **How and when the item was acquired**
    - **Acquisition cost of the item**
    - **Current custody (GFP or Government)**
    - **How the item is marked**
    - **Embedded items (as of acceptance, and as of transfer of custody)**
    - **Warranty Flag**

Stats as of June 8, 2011

- **13,813,825 Items registered**
- **9,769,206 New items**
- **4,044,619 Legacy**
- **2,329 Contractors have delivered new UIIs**
- **1,434 of the contractors (62%) are small businesses***
- **1,898,170 of the new items (20%) are from small businesses***
- **Growth rate of over 39,000 new UIIs/week**
- **584,358 Items are in GFP status**

* **Based on current size status in CCR**

** **Legacy and GFP UIIs often come in large batches and weekly rates for those are not meaningful**

What's being sent?

<LegacyOrNewCode>**NEW**</LegacyOrNewCode>
<Version>**3.4.1**</Version>
- <Contact>
<Name>**KAJ**</Name>
<Organization>**1DZR8**</Organization>
<Phone>**555.555.5517**</Phone>
</Contact>
- <AddItem>
- <EndProduct>
<ContractNumber>**RTEST341V40**</ContractNumber>
<PrimeContractorIdentifier>**53218**</PrimeContractorIdentifier>
- <ContractInfo>
<AcceptanceCode>**Q99999**</AcceptanceCode>
<AcceptanceDate>**2009-04-10**</AcceptanceDate>
<AcquisitionCost>**1**</AcquisitionCost>
<ClinSlinElin>**8472**</ClinSlinElin>
<Description>**V3.4.1 Regression Testing -- New GFP**</Description>
<ForeignCurrencyCode>**USD**</ForeignCurrencyCode>
<ShipToCode>**S1005A**</ShipToCode>
<UnitOfMeasure>**EA**</UnitOfMeasure>
- <UidList>

Required Data for Legacy

- Description
- UII
- UID Type (Con[illegible]r Construct 2)
- Part number [illegible]atch[illegible] (if construct 2)
- Enterprise ID
- Serial Number
- Issuing Agenc[illegible] Cod[illegible]
- UID Mark Type, Contents, Medium, Value
- Embedded items data

Required Data for UII GFP

All Legacy Elements plus

- Custodial CAGE/DUNS/DODAAC
- Acquisition C
- Category Code
- Custodial Contract nber
- Contract Number e
- Received Date o nt Date
- Status Code

Required Data for New Acquisition

- UII
- Contract Number, Contract Number Type
- Prime Contractor Identifier
- Acceptance Code
- Acceptance Date
- Acquisition Cost
- CLIN/SLIN/ELIN
- Description
- Currency Code
- Ship to Code
- Unit of Measure
- Construct 1 or Construct 2
- Part number or Batch Lot (if Construct 2)
- Enterprise ID
- Serial Number
- Issuing Agency Code
- UID Mark Type (Construct 1, Construct 2, VIN, NSN etc.),
- Mark Contents, Medium, Value
- Special Tooling, Special Test Equipment

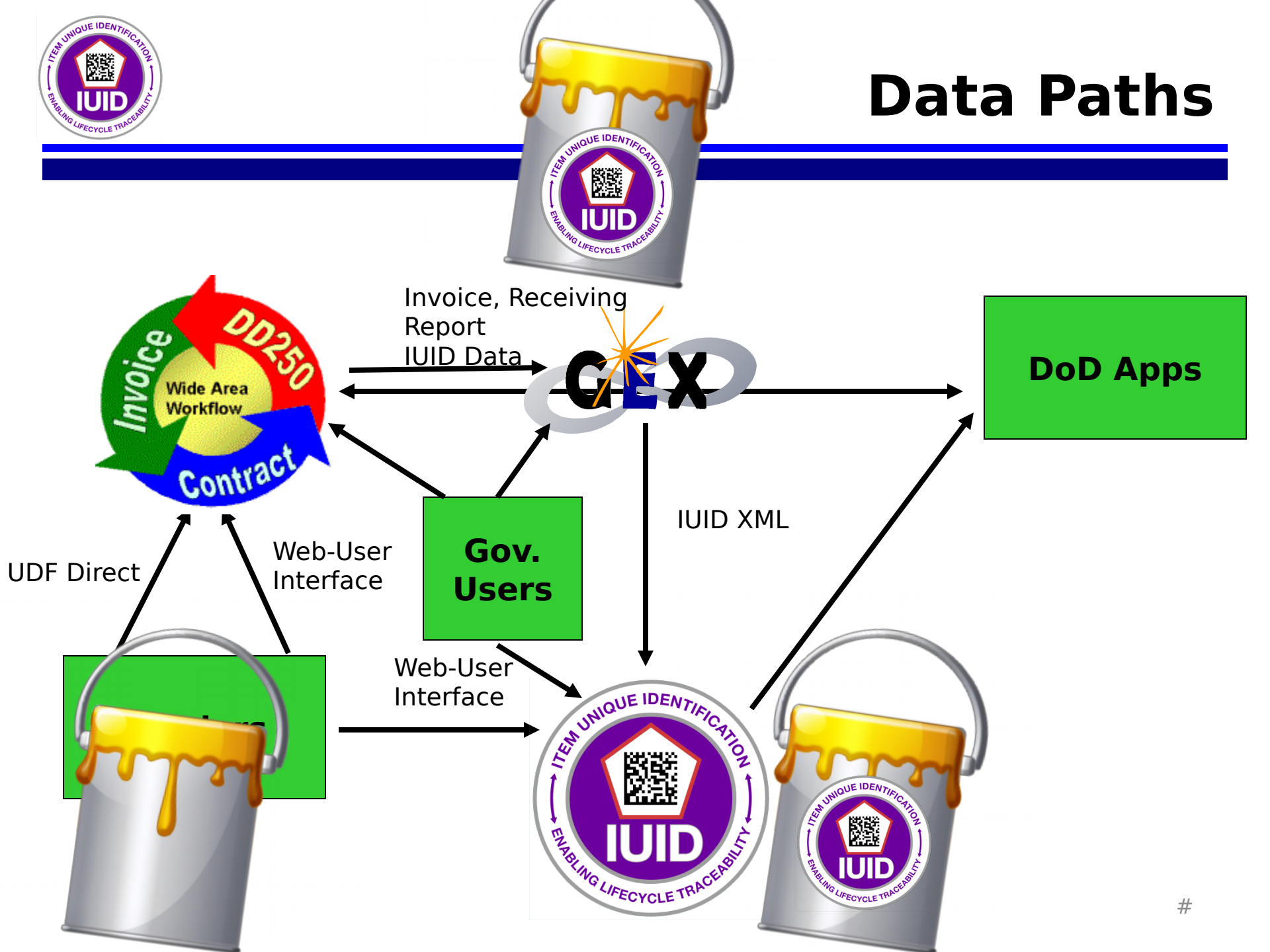
Updates

Updates UII record when there are changes to:

- Custody
- Life Cycle Event
- Physical Markings
- Embedded status
- Part or Batch/Lot number (Rollover due to form, fit or function change)
- Special Tooling/Test Equipment Status
- Item Owner

The preceding slides are provided to denote the types of data needed. For the exact list of data elements and the associated requirements rules, please see the IUID Elements Structure document (available for download on the Data Submission Information page at: http://www.acq.osd.mil/dpap/pdi/uid/data_submission_information.html#q3

Data Paths


Invoice, Receiving Report IUID Data
DD250
Invoice
Wide Area Workflow
Contract
GEX
DoD Apps
IUID XML
Gov. Users
Web-User Interface
UDF Direct
Web-User Interface
ITEM UNIQUE IDENTIFICATION
IUID
ENABLING LIFECYCLE TRACEABILITY

How do I…?

How do I submit data?

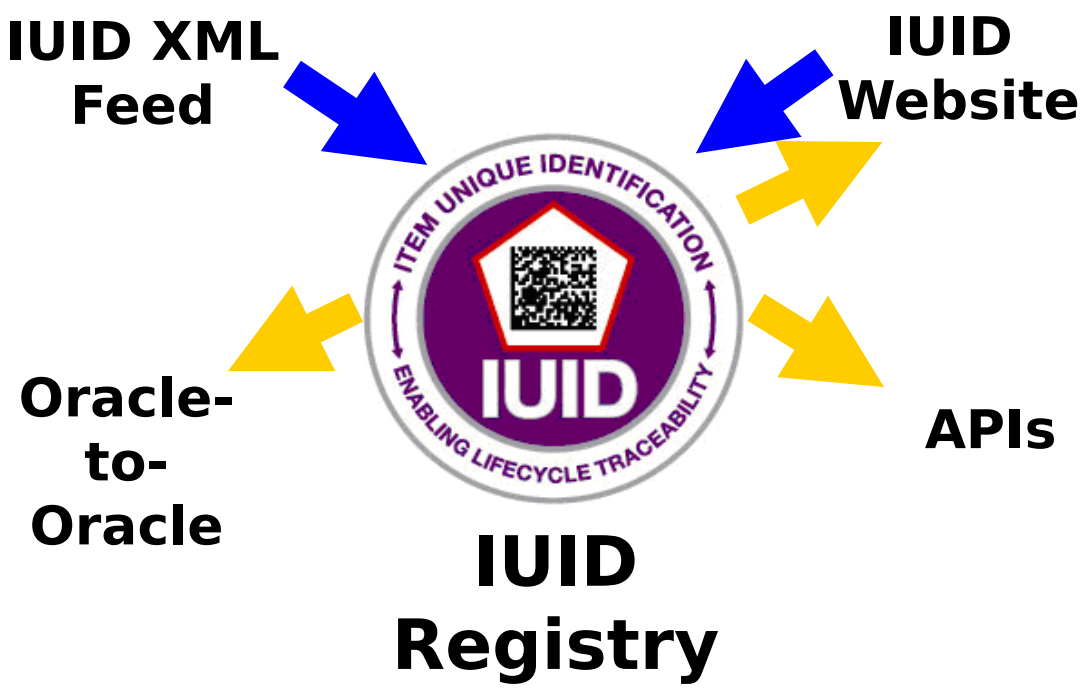
- **Wide Area Workflow (WAWF)**
  - DoD Paperless Invoicing, Receipt and Acceptance, & Property Transfer
  - IUID data automatically flows
  - Apply for a WAWF account
- **Global Exchange (GEX)**
  - Data Transformation and Routing
  - For direct submission of Registry data via XML or Flat File

How do I access my data?

- **Website**:
  - Queries, Reports
  - Apply for IUID Registry Website account
- **System to System**: APIs and Oracle-to-Oracle views
  - Secured APIs require a Registry account
  - Other data access requires Interface Control Agreement; contact Will Whittington, PM

Registry Interfaces

- IUID Feed
- IUID Website
- IUID Application Program Interface (API)
- Oracle to Oracle Interface



Access to the Registry Website and Secured APIs

The access granted to the user determines the data and functionality available to that user.

- **Contractor:**
  - Add new IUID records that have been produced under contracts assigned to your CAGE/DUNS.
  - Update existing IUID records that are currently in your Custody.
  - Correct existing IUID records that you have entered and are less than 30 days old.
  - Query IUID records that you have entered, or are under contracts assigned to your CAGE/DUNS, or are currently in your Custody.
  - CAGE/DUNS, or are currently in your Custody.
- **Legacy:**
  - Add new IUID records
  - Update existing IUID records.
  - Correct existing IUID records and sub records that have been entered by your organization and are less than 30 days old.
  - Query IUID records.
  - Run GFP Reports for IUID records.
- **Inquiry and DCMA:** Query IUID records

To Register for IUID Registry Website Account, go to:

Submitting files via GEX

Set up a GEX account to submit the files by SFTP or HTTPS. Laura Wallace and her team at JITC will be providing the data validation on practice files before access is set up.

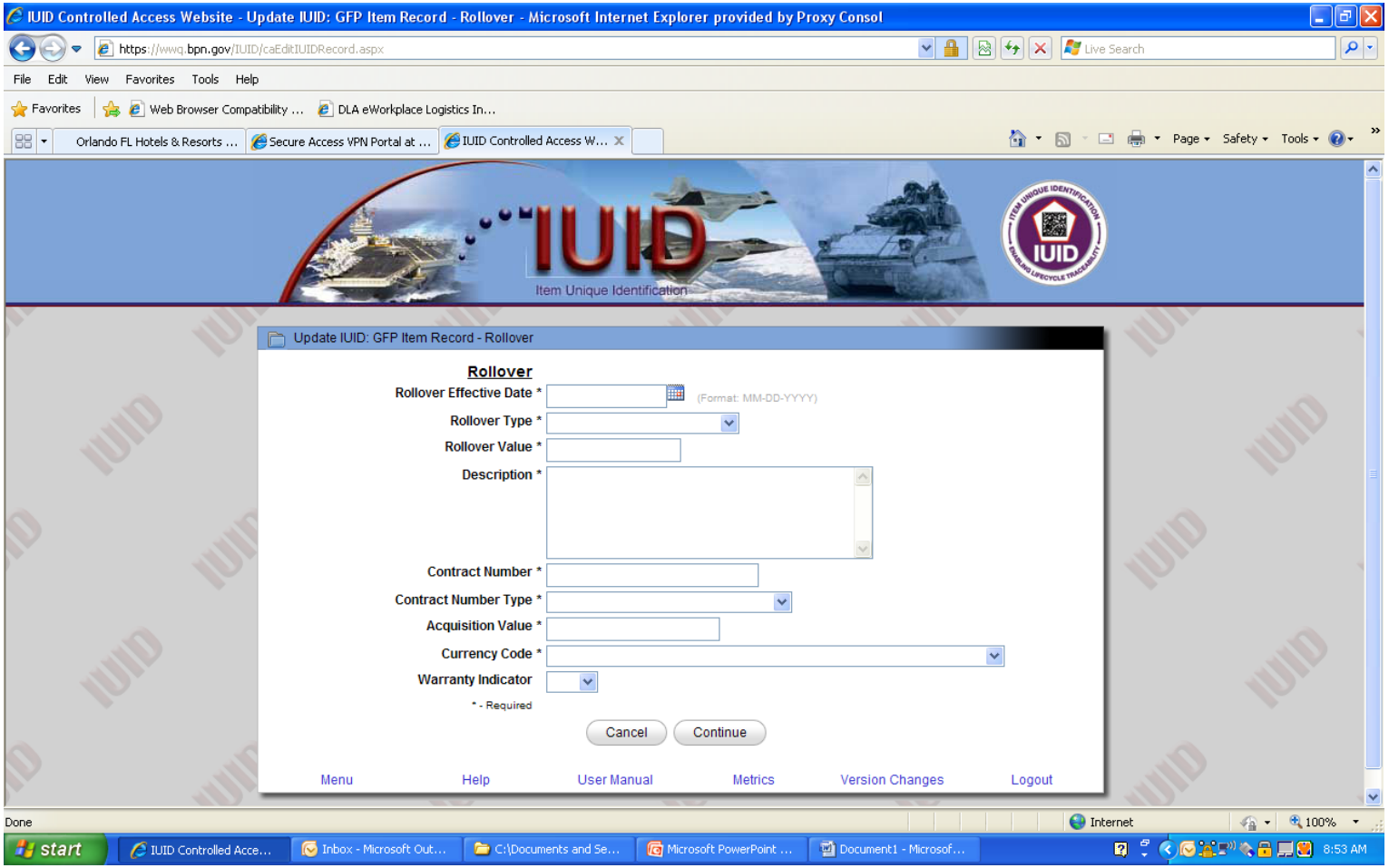
Step 1 - Complete IUID data format testing with Laura Wallace Laura.Wallace.ctr@disa.mil. Please contact Laura and she will provide additional information. You will be sending her the file in an email as an attachment for the test.

Step 2 – Laura will provide the GEX Application form. When completed, send back to Laura.

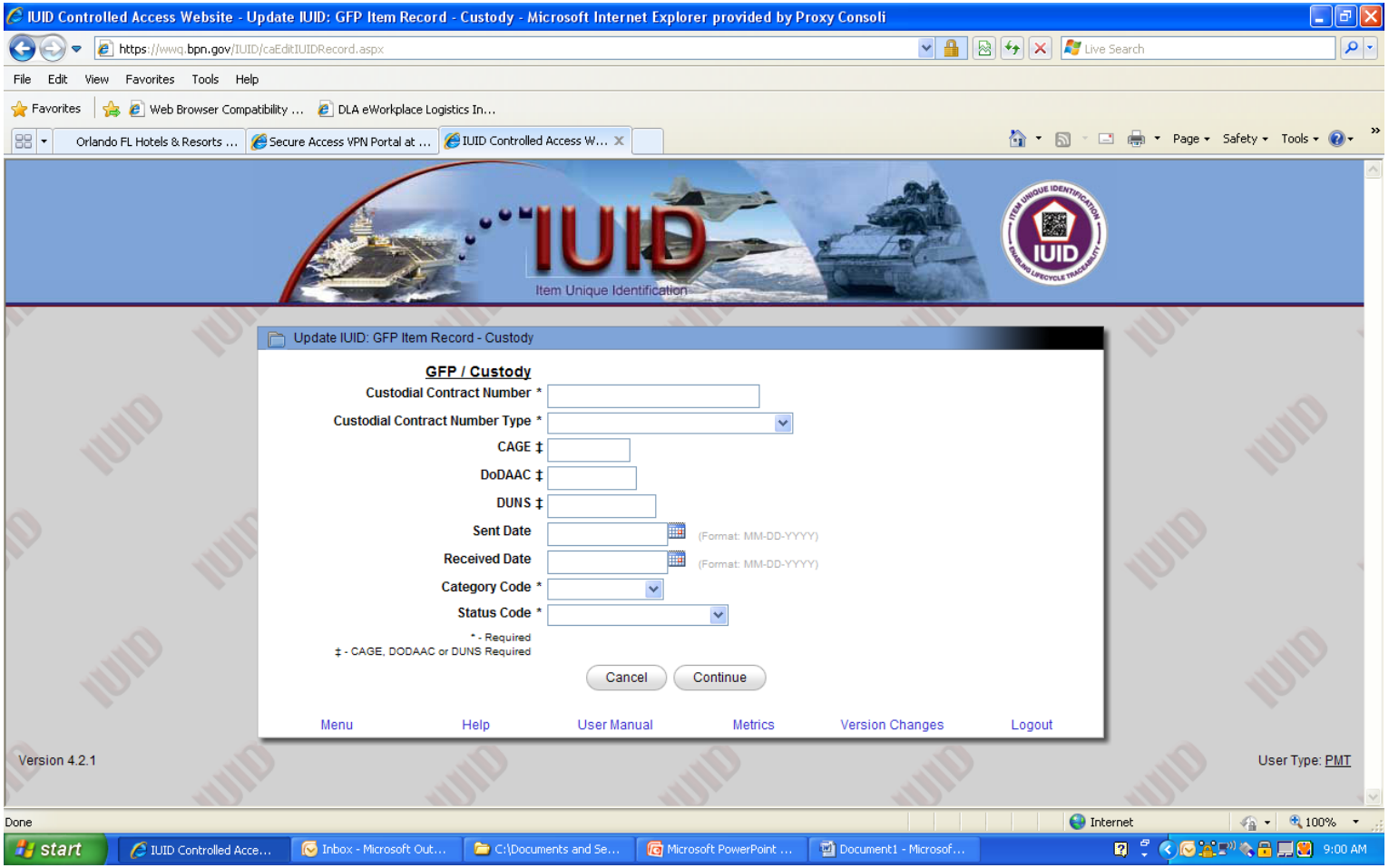
Please note that both steps can be completed at the same time. GEX access will be granted after successful validation testing is completed.

If you have any questions on the GEX application, please contact Laura. If you have questions on Registry functionality, please contact Kelsey at the iuid.helpdesk@bpn.gov . Please note that both steps can be completed at the same time. GEX access will be granted

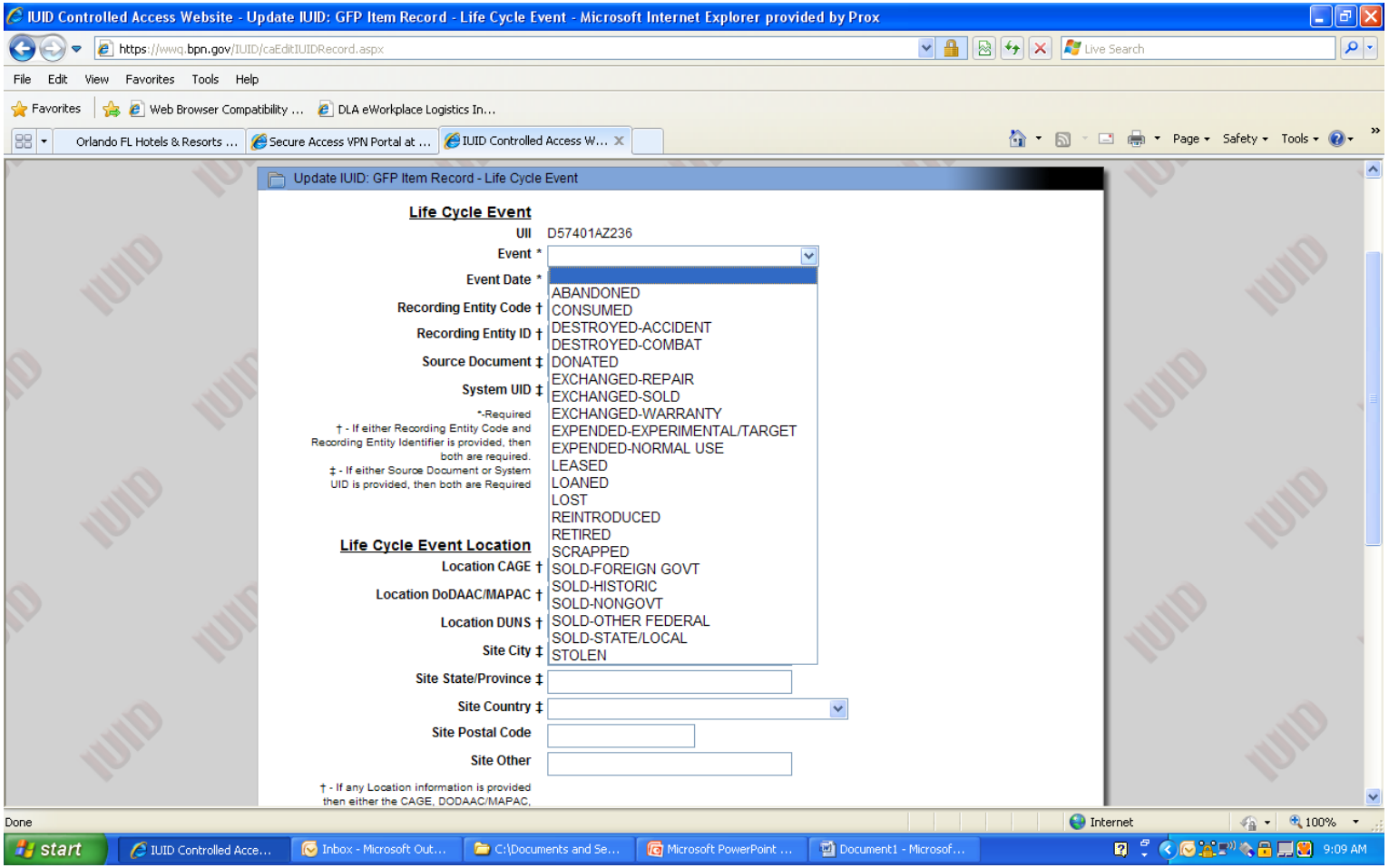
Update: Part Number Roll



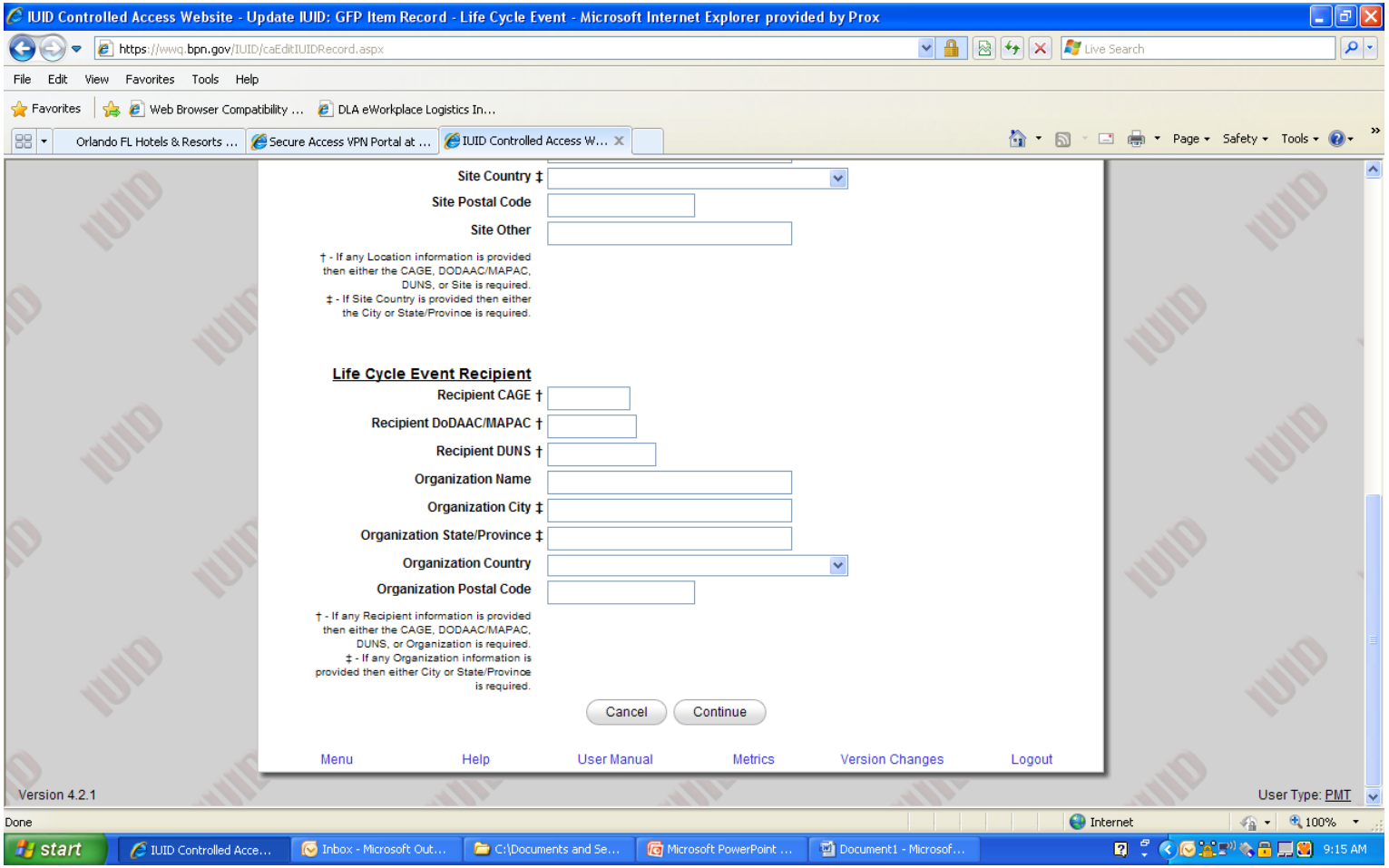
Update: Custody Transfer



Update: Life Cycle Event



Update: Life Cycle Event



Data Quality by the Numbers

150 validations on new items.

95% of Registry data comes via GEX. Only 5% is submitted on the Registry website.

60 days from entry is the window users have to make corrections via the website.

Queries and Reports

Queries

- **Single Item**
- **Contract**
- **Composition**
- **GFP Custody by Contract**
- **GFP Custody by CAGE/DUNS**
- **Mark Query**
- **Pedigree Query**
- **Part Number Query**
- **Web Entry Activity Query**
- **GFP Reconciliation Query**
- **Active Part/Serial/Batch/Lot Number Query**

Requested Reports

- **GFP Summary by Contract**
- **GFP Summary by Contractor**

Availability of Queries and Reports depends on Access of the User.

Queries and Reports

- **Single Item Query:** Provides the user with the pedigree or "birth record" of the item, as well as composition, mark, lifecycle, and custody information. Now presents an "Active" section containing the most current Part Numbers and descriptions.
- **Contract Query:** Provides the user with all the Unique Item Identifiers (UIIs) delivered on a specific acquisition contract as of a specific date.
- **Composition Query:** Provides the user with the composition (parent and/or child item) information for a specific item.
- **GFP Custody by Contract Query:** Provides the user with a list of Government Furnished Property (GFP) items furnished under a specific custodial contract as of a specific date.
- **GFP Custody by CAGE/DUNS Query:** Provides the user with a list of all GFP items furnished to a contractor. Queries can be submitted using either the Commercial and Government Entity (CAGE) or the Data Universal Numbering System (DUNS).
- **Mark Query:** Provides the user with a list of all items having a physical mark matching those in the request.

Queries and Reports

- **Pedigree Query:** Provides the user with a list of items matching a requested serial number, part number, lot/batch number, and/or enterprise identifier as part of the UII's pedigree elements.
- **Part Number Query:** Provides the user with a list of items that have the requested part number.
- **GFP Reconciliation Query:** Provides the user with a list of GFP items provided to the requested contractor CAGE or DUNS and the current custodial status of the items.
- **Active Part/Serial/Batch/Lot Number Query:** Provides the user the most current part number, batch/lot number, serial number and description for each item matching the requested criteria.
- **GFP Summary by Contract Report:** Provides the user with a summary count and value of GFP items associated with the contract number requested.
- **GFP Summary by Contractor Report:** Provides the

Application Program Interface (API)

Several APIs are in place to automate system-to-system querying of the IUID Registry

- **UII Verification**
- **UII Retrieval from Elements**
- **UII Validation**
- **Elements Retrieval from UII**
- **UII Retrieval from Marks**
- **Warranty**
- **General Purpose API – Government (Secure)**
- **General Purpose API – Industry (Secure)**
- **Acquisition Contract API**

IUID API SUM – The Software User Manual can be downloaded from**:**
http://www.bpn.gov/iuidapi2/IUID_Reg_API_Guide_SUM.doc

Application Program Interface (API)

The list of currently available APIs includes:

- **UII Verification:** Allows a user system to verify if a specific UII is already in the system.
- **UII Retrieval from Elements:** Allows a user system to retrieve the matching UII (if found) for each set of pedigree data provided. A set of pedigree data requires the enterprise identifier and serial number, and may include the part number and/or batch/lot number.
- **UII Validation:** Allows a user system to verify lists of UIIs are correctly constructed.
- **Elements Retrieval from UII:** Allows a user system to retrieve UII elements for a list of UIIs submitted.
- **UII Retrieval from Marks:** Allows a user system to retrieve UII matching the Mark Section data requested.
- **Warranty:** Allows a user system to retrieve basic warranty information.
- **General Purpose API (secure):** Allows a government-user system to retrieve specific data for UIIs submitted. Requires a

Resources

To Register for IUID Registry Website Account:

https://www.bpn.gov/BRS

For Registry Assistance or for help in getting a GEX account for direct submission:

iuid.helpdesk@bpn.gov

For additional data submission information:

http://www.acq.osd.mil/dpap/pdi/uid/data_submission_information.html

For IUID Frequently Asked Questions:

http://www.acq.osd.mil/dpap/pdi/uid/faq.html

For training resources:

http://www.acq.osd.mil/dpap/pdi/uid/training.html

BACK-UP SLIDES
June 16, 2011

Released with v4.3, April 25, 2011

- **New Field: Owning Entity** (Service/Agency/Command). Updatable field that allows users to designate the DoD Entity or Federal Entity that owns the item and the effective date of the ownership.
- **New Field: Type Designation**. Updatable field to record type designations and effective dates.
- **New Field: Special Tooling or Test Equipment**. Required field allowing users to designate items as ST , STE or neither. This will be a required field on all legacy items, updates, and new items not submitted via WAWF.
- **UID Load Date** will be visible to users on Single Item Query, decreasing errors for data elements

Released with v4.3, April 25, 2011

- Government XML submitters will have an option to provide System Name and System Version in lieu of a DITPR number.
- Error code numbers will be added to XML responses to allow user systems to more easily recognize errors in response documents
- Disallow deletions of UIIs that contain embedded items or that have updates or corrections subsequent to their entry.
- Access to future requirements and documentation

Released with v4.3, April 25, 2011

XML Return Response to Submitter via GEX

- The IUID Registry 4.3 version will allow either GEX or the IUID Registry to automatically generate an XML file notice that will be routed to the original file submitter.
- The GEX notice will inform users of high level schema validation failures so the user can correct the file and resubmit. When the file passes GEX, the Registry will validate file content.
- The Registry file response will list:
  - which items were successfully uploaded,
  - which items need to be re-submitted due to upload failure,
  - the reason for the failure.
- Users will receive only one response file per distinct XML submission, with all file errors contained in that one response.

Released with v4.3, April 25, 2011

In order to receive the new automatic file notice, the submitting activity will sign up for the notification service at GEX when it becomes available.

As the IUID Registry and GEX move toward automating more processes, the file response notice will become the primary means of notifying users of file load errors and the need for resubmission.

Sunset of Schemas v3.0, 3.0.1, 3.4

In an effort to ensure more complete and accurate data collection, the IUID Registry Program Management Team will be sun-setting versions 3.0, 3.0.1, and 3.4 effective April 25, 2011.

After April 25, 2011, the registry will only

Proposed for Registry v5.0, Summer 2011

Looking forward:

- Expand Registry functionality to include the receipt and storage of non-UII GFP transaction data required in the DFAR ruling expected by the end of the year. (Phase 1)
- Non-UII transaction data will come to the Registry in XML format, from existing data steams such as the WAWF 856 PSN and 527R, as well as through “bulk upload” XML submission by Services and Industry.

Proposed IUID Registry v5.1, Feb. 2012

- Phase 2 Enhancements to the GFP module expected to include:
  - Search of non-UII transaction data by contract number or other data elements via web interface.
  - Update of specific fields via web interface.